Heat: An Agent of Change

Atoms and Molecules in Motion

STUDENT ACTIVITY

PROBLEM

How can we explain the differences between solids, liquids, and gases?

PROCEDURE

Following the classroom activity on solids, liquids, and gases, fill in the chart below.

CONCLUSION

1. In your laboratory notebook, summarize your understanding by filling in the following table. Use words such as, *least, medium, most*, or *closest, medium, farthest*.

	Spacing of Molecules	Energy of Molecules
Solid		
Liquid		
Gas		

2. Define the following terms: *solid, liquid*, and *gas*.

3. Give an example of each of the three states of matter that was not discussed in class.

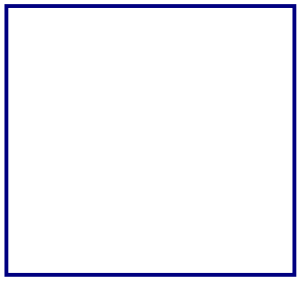
4. You get to be a molecule in a solid, a liquid, or a gas. Which would you rather be? Why?

Heat: An Agent of Change

Diagramming Atoms and Molecules in Motion

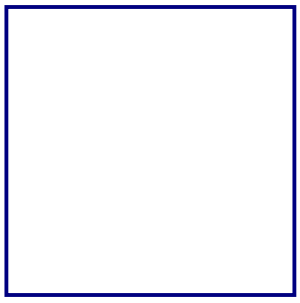
HANDOUT

Name _____



Solid

Liquid



Gas

Key: X = a molecule